PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORITY					
То:		PCT.			
Alban Tay Mahtani & De Silva		161			
39 Robinson Road #07-01 Robinson Point		WRITTEN OPINION OF THE			
Singapore 068911		INTERNATIONAL SEARCHING AUTHORITY			
S. B. Francisco		(DOTT 1 401) A)			
		(PCT Rule 43bis.1)			
		Date of mailing (day/month/year) 1 2 MAY 2005			
Applicant's or agent's file reference		FOR FURTHER ACTION			
2050030KC		See paragraph 2 below			
• •	nternational filing date				
PCT/SG2005/000061 1 International Patent Classification (IPC) or bo	March 2005	15 March 2004			
int. Cl. 7 H01L 33/00	· ·				
Applicant					
TINGGI TECHNOLOGIES PRIVA	ATE LIMITED et	al			
1. This opinion contains indications relating	g to the following ite	ems:			
Box No. I Basis of the opinion Box No. II Priority					
	oninion with regard to	novelty, inventive step and industrial applicability			
		noverty, inventive step and industrial applicability			
citations and explanations supporting such statement					
Box No. VI Certain documents cited Box No. VII Certain defects in the international application					
Box No. VII Certain defects in the international application X Box No. VII					
)	······································	·			
2. FURTHER ACTION	•				
If a demand for international preliminary ex-	amination is made, thi	s opinion will be considered to be a written opinion of the Internation	ıal		
Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a					
written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA		S. T. PRING			
E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Telephone No. (02) 6283 2210			
Pausifilite (NO. (UZ) UZOJ 39Z9					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2005/000061

Box	No. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material					
	a sequence listing					
	table(s) related to the sequence listing					
1	b. format of material					
, 1	in written format					
	in computer readable form					
	c. time of filing/furnishing					
	contained in the international application as filed.					
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority for the purposes of search.					
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4.	Additional comments:					
. }.						

WRITTEN OPINION OF THE 'INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2005/000061

Box No. V			3 <i>bis</i> .1(a)(i) with regard to n ations supporting such stat	ovelty, inventive step or inc ement	lustrial
1. Statement					
Nov	velty (N)	Claims 1	1-53	•	YES
		Claims			NO
Inve	entive step (IS)	Claims 1	1-53		YES
		Claims		•	NO
Indi	ustrial applicability (IA)	Claims 1	L -53		YES
		Claims			NO
				•	

Citations and explanations:

Novelty and Inventive Step

The disclosed art describes the removal of the substrate but this is replaced by another. They disclose reflecting layer but on the textured surface of the substrate which is contained in the middle of the device, not the bottom or without the substrate. Therefore the removal of the substrate and the patterning of the epitaxial layers thus revealed with an reflecting ohmic layer on the top surface of the epitaxial layers can be said to be novel and to have an inventive step.

WRITTEN OPINION OF THE 'INTERNATIONAL SEARCHING AUTHORITY

International application No.

		PCT/SG2005/000061					
Box No. VIII	Certain observations on the international application						
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: Claims 51 and 52 are not clear as to grouping of semiconductor devices from which they are selected.							
, , , , , , , , , , , , , , , , , , ,							
		•					
}		· .					
	•	·					
	•						
		•					
		·					